

ABSTRACT

A GPS conical shaped microstrip antenna array which receives GPS data and which is adapted for use on weapons systems such as a missile or smart bomb. The microstrip antenna array has a center frequency of 1.575 GHz, a frequency bandwidth of twenty megahertz and provides for right hand circular polarization. The microstrip antenna includes a four aligned copper antenna elements which have a square shape, and a copper etched feed network which provides for a signal phase shift of ninety degrees resulting in right hand circular polarization of each of the four aligned antenna elements.